



1

SEQUENCE LISTING

RECEIVED

OCT 30 2002

TECH CENTER 1600/2900

<110> Van Eyk, Jennifer E.
Iscoe, Steven D
Simpson, Jeremy A

<120> Methods of Diagnosing Muscle Damage

<130> 1997-023-02US

<140> 09/115,589
<141> 1998-07-15

<150> 60/052,697
<151> 1997-07-16

<160> 19

<170> PatentIn Ver. 2.1

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<213> Unknown

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<222> (1)..(12)
<223> Myosin light chain 1

<220>
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<222> (1)
<223> May be any amino acid.

<220>
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<222> (2)
<223> May be any amino acid.

<220>
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<222> (7)
<223> May be either Pro or Ala.

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 <223> malate dehydrogenase

<220>
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 <223> May be any amino acid.

<220>
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 <222> (8)
 <223> May be any amino acid.

<400> 3
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 1 5 10

<210> 4
 <211> 13
 <212> PRT
 <213> Unknown

<220>
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 <223> ATP g synthase chain

<220>
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 <222> (1)
 <223> May be any amino acid.

<220>
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 <222> (2)
 <223> May be any amino acid.

<400> 4
 Xaa Xaa Leu Lys Asp Ile Thr Arg Arg Leu Lys Ser Ile
 1 5 10

<210> 5
 <211> 10

<212> PRT
 <213> Unknown

<220>
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 <222> (1)..(10)
 <223> ATP synthase oligomycin conferring protein

<220>
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 <222> (1)
 <223> May be any amino acid.

<220>
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 <222> (2)
 <223> May be any amino acid.

<400> 5
 Xaa Xaa Lys Leu Val Arg Pro Pro Val Gln
 1 5 10

<210> 6
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 <213> Unknown

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 <222> (1)..(10)
 <223> serum albumin

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 <223> May be any amino acid.

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<220>
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 <223> May be any amino acid.

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 <222> (4)

<223> May be Arg or Leu.

<400> 7

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1 5 10

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<223> Human cardiac troponin I

<220>

<223> Swiss prot identification number P19429

<300>

<303> FEBS Lett.

<304> 270

<305> 1-2

<306> 57-61

<307> 1990-09-17

<400> 8

Ala Asp Gly Ser Ser Asp Ala Ala Arg Glu Pro Arg Pro Ala Pro Ala
1 5 10 15

Pro Ile Arg Arg Arg Ser Ser Asn Tyr Arg Ala Tyr Ala Thr Glu Pro
20 25 30

His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln Leu
35 40 45

Lys Thr Leu Leu Leu Gln Ile Ala Lys Gln Glu Leu Glu Arg Glu Ala
50 55 60

Glu Glu Arg Arg Gly Glu Lys Gly Arg Ala Leu Ser Thr Arg Cys Gln
65 70 75 80

Pro Leu Glu Leu Ala Gly Leu Gly Phe Ala Glu Leu Gln Asp Leu Cys
85 90 95

Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr Asp
100 105 110

Ile Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu Thr
115 120 125

Gln Lys Ile Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu Arg
130 135 140

Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly Ala
145 150 155 160

Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val Lys
165 170 175

Lys Glu Asp Thr Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg Lys
 180 185 190

Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe Glu
 195 200 205

Ser

<210> 9
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 <223> Human slow skeletal troponin I

<220>
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 <306> 346-357
 <307> Jul-1990

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 Pro Glu Val Glu Arg Lys Pro Lys Ile Thr Ala Ser Arg Lys Leu Leu
 1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
 20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ala Glu Arg Ile
 35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
 50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
 65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
 85 90 95

Lys Leu Lys Val Met Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
 100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
 115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
 130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
 145 150 155 160

180

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<220>
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<300>
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 <304> 30
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 <306> 707-712
 <307> 1991-01-22

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 Ala Asp Glu Ser Ser Asp Ala Ala Gly Glu Pro Gln Pro Ala Pro Ala
 1 5 10 15
 Pro Val Arg Arg Arg Ser Ser Ala Asn Tyr Arg Ala Tyr Ala Thr Glu
 20 25 30
 Pro His Ala Lys Lys Lys Ser Lys Ile Ser Ala Ser Arg Lys Leu Gln
 35 40 45
 Leu Lys Thr Leu Met Leu Gln Ile Ala Lys Gln Glu Met Glu Arg Glu
 50 55 60
 Ala Glu Glu Arg Arg Gly Glu Lys Gly Arg Val Leu Ser Thr Arg Cys
 65 70 75 80
 Gln Pro Leu Val Leu Asp Gly Leu Gly Phe Glu Glu Leu Gln Asp Leu
 85 90 95
 Cys Arg Gln Leu His Ala Arg Val Asp Lys Val Asp Glu Glu Arg Tyr
 100 105 110
 Asp Val Glu Ala Lys Val Thr Lys Asn Ile Thr Glu Ile Ala Asp Leu
 115 120 125
 Thr Gln Lys Ile Tyr Asp Leu Arg Gly Lys Phe Lys Arg Pro Thr Leu
 130 135 140
 Arg Arg Val Arg Ile Ser Ala Asp Ala Met Met Gln Ala Leu Leu Gly
 145 150 155 160
 Thr Arg Ala Lys Glu Ser Leu Asp Leu Arg Ala His Leu Lys Gln Val
 165 170 175
 Lys Lys Glu Asp Ile Glu Lys Glu Asn Arg Glu Val Gly Asp Trp Arg
 180 185 190
 Lys Asn Ile Asp Ala Leu Ser Gly Met Glu Gly Arg Lys Lys Lys Phe

195

200

205

Glu Gly
210

<210> 12

<211> 186

<212> PRT

<213> Unknown

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<222> (1)..(186)

<223> Rat slow skeletal troponin I

<220>

<223> Swiss prot identification number P13413

<300>

<303> J. Biol. Chem.

<304> 264

<305> 24

<306> 14327-14333

<307> 1989-08-25

<400> 12

Pro Glu Val Glu Arg Lys Ser Lys Ile Thr Ala Ser Arg Lys Leu Met
1 5 10 15

Leu Lys Ser Leu Met Leu Ala Lys Ala Lys Glu Cys Trp Glu Gln Glu
20 25 30

His Glu Glu Arg Glu Ala Glu Lys Val Arg Tyr Leu Ser Glu Arg Ile
35 40 45

Pro Thr Leu Gln Thr Arg Gly Leu Ser Leu Ser Ala Leu Gln Asp Leu
50 55 60

Cys Arg Glu Leu His Ala Lys Val Glu Val Val Asp Glu Glu Arg Tyr
65 70 75 80

Asp Ile Glu Ala Lys Cys Leu His Asn Thr Arg Glu Ile Lys Asp Leu
85 90 95

Lys Leu Lys Val Leu Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu
100 105 110

Arg Arg Val Arg Val Ser Ala Asp Ala Met Leu Arg Ala Leu Leu Gly
115 120 125

Ser Lys His Lys Val Ser Met Asp Leu Arg Ala Asn Leu Lys Ser Val
130 135 140

Lys Lys Glu Asp Thr Glu Lys Glu Arg Pro Val Glu Val Gly Asp Trp
145 150 155 160

Arg Lys Asn Val Glu Ala Met Ser Gly Met Glu Gly Arg Lys Lys Met
165 170 175

Phe Asp Ala Ala Lys Ser Pro Thr Leu Gln

180

185

<210> 13
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<220>
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 1 5 10 15
 Leu Lys Ser Val Met Leu Gln Ile Ala Ala Thr Glu Leu Glu Lys Glu
 20 25 30
 Glu Ser Arg Arg Glu Ser Glu Lys Gln Asn Tyr Leu Ser Glu His Cys
 35 40 45
 Pro Pro Leu His Ile Pro Gly Ser Met Ser Glu Val Gln Glu Leu Cys
 50 55 60
 Lys Gln Leu His Ala Lys Ile Asp Ala Ala Glu Glu Glu Lys Tyr Asp
 65 70 75 80
 Met Glu Val Lys Val Gln Lys Ser Ser Lys Glu Leu Glu Asp Met Asn
 85 90 95
 Gln Lys Leu Phe Asp Leu Arg Gly Lys Phe Lys Arg Pro Pro Leu Arg
 100 105 110
 Arg Val Arg Met Ser Ala Asp Ala Met Leu Lys Ala Leu Leu Gly Ser
 115 120 125
 Lys His Lys Val Cys Met Asp Leu Arg Ala Asn Leu Lys Gln Val Lys
 130 135 140
 Lys Glu Asp Thr Glu Lys Glu Arg Asp Leu Arg Asp Val Gly Asp Trp
 145 150 155 160
 Arg Lys Asn Ile Glu Glu Lys Ser Gly Met Glu Gly Arg Lys Lys Met
 165 170 175
 Phe Glu Ser Glu Ser
 180

<210> 14
 <211> 287
 <212> PRT
 <213> Unknown

<220>

<221> PEPTIDE

<222> (1)..(287)

<223> Human cardiac troponin T

<220>

<223> Swiss prot identification number P45379

<300>

<303> FEBS Lett.

<304> 328

<305> 1-2

<306> 139-144

<307> 1993-08-09

<400> 14

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Glu	Ala	Ala	Val	Glu	Glu	Gln	Glu	Glu	Ala	Ala	Glu	Glu	Asp	Ala	Glu
			20				25						30		

Ala	Glu	Ala	Glu	Thr	Glu	Glu	Thr	Arg	Ala	Glu	Glu	Asp	Glu	Glu	Glu
		35					40					45			

Glu	Glu	Ala	Lys	Glu	Ala	Glu	Asp	Gly	Pro	Met	Glu	Glu	Ser	Lys	Pro
	50					55					60				

Lys	Pro	Arg	Ser	Phe	Met	Pro	Asn	Leu	Val	Pro	Pro	Lys	Ile	Pro	Asp
65					70					75					80

Gly	Glu	Arg	Val	Asp	Phe	Asp	Asp	Ile	His	Arg	Lys	Arg	Met	Glu	Lys
				85					90					95	

Asp	Leu	Asn	Glu	Leu	Gln	Ala	Leu	Ile	Glu	Ala	His	Phe	Glu	Asn	Arg
			100					105					110		

Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val	Ser	Leu	Lys	Asp	Arg	Ile	Glu	Arg
		115					120					125			

Arg	Arg	Ala	Glu	Arg	Ala	Glu	Gln	Gln	Arg	Ile	Arg	Asn	Glu	Arg	Glu
	130					135					140				

Lys	Glu	Arg	Gln	Asn	Arg	Leu	Ala	Glu	Glu	Arg	Ala	Arg	Arg	Glu	Glu
145					150					155					160

Glu	Glu	Asn	Arg	Arg	Lys	Ala	Glu	Asp	Glu	Ala	Arg	Lys	Lys	Lys	Ala
				165					170					175	

Leu	Ser	Asn	Met	Met	His	Phe	Gly	Gly	Tyr	Ile	Gln	Lys	Gln	Ala	Gln
			180					185						190	

Thr	Glu	Arg	Lys	Ser	Gly	Lys	Arg	Gln	Thr	Glu	Arg	Glu	Lys	Lys	Lys
		195					200					205			

Lys	Ile	Leu	Ala	Glu	Arg	Arg	Lys	Val	Leu	Ala	Ile	Asp	His	Leu	Asn
	210					215					220				

Glu	Asp	Gln	Leu	Arg	Glu	Lys	Ala	Lys	Glu	Leu	Trp	Gln	Ser	Ile	Tyr
225					230					235					240

Asn	Leu	Glu	Ala	Glu	Lys	Phe	Asp	Leu	Gln	Glu	Lys	Phe	Lys	Gln	Gln
				245					250					255	
Lys	Tyr	Glu	Ile	Asn	Val	Leu	Arg	Asn	Arg	Ile	Asn	Asp	Asn	Gln	Lys
			260					265					270		
Val	Ser	Lys	Thr	Arg	Gly	Lys	Ala	Lys	Val	Thr	Gly	Arg	Trp	Lys	
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<211> 277
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<220>
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<300>
<303> J. Biol. Chem.
<304> 262
<305> 33
<306> 16122-16126
<307> 1987-11-25

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			20					25					30				
Glu	Pro	Glu	Glu	Glu	Arg	Pro	Lys	Pro	Ser	Arg	Pro	Val	Val	Pro	Pro		
		35					40					45					
Leu	Ile	Pro	Pro	Lys	Ile	Pro	Glu	Gly	Glu	Arg	Val	Asp	Phe	Asp	Asp		
	50					55					60						
Ile	His	Arg	Lys	Arg	Met	Glu	Lys	Asp	Leu	Leu	Glu	Leu	Gln	Thr	Leu		
	65				70					75					80		
Ile	Asp	Val	His	Phe	Glu	Gln	Arg	Lys	Lys	Glu	Glu	Glu	Glu	Leu	Val		
				85					90					95			
Ala	Leu	Lys	Glu	Arg	Ile	Glu	Arg	Arg	Arg	Ser	Glu	Arg	Ala	Glu	Gln		
			100					105					110				
Gln	Arg	Phe	Arg	Thr	Glu	Lys	Glu	Arg	Glu	Arg	Gln	Ala	Lys	Leu	Ala		
		115					120					125					
Glu	Glu	Lys	Met	Arg	Lys	Glu	Glu	Glu	Glu	Ala	Lys	Lys	Arg	Ala	Glu		
	130					135					140						
Asp	Asp	Ala	Lys	Lys	Lys	Lys	Val	Leu	Ser	Asn	Met	Gly	Ala	His	Phe		
	145				150					155					160		

Gly Gly Tyr Leu Val Lys Ala Glu Gln Lys Arg Gly Lys Arg Gln Thr
 165 170 175
 Gly Arg Glu Met Lys Val Arg Ile Leu Ser Glu Arg Lys Lys Pro Leu
 180 185 190
 Asp Ile Asp Tyr Met Gly Glu Glu Gln Leu Arg Ala Arg Ser Ala Trp
 195 200 205
 Leu Pro Pro Ser Gln Pro Ser Cys Pro Ala Arg Glu Lys Ala Gln Glu
 210 215 220
 Leu Ser Asp Trp Ile His Gln Leu Glu Ser Glu Lys Phe Asp Leu Met
 225 230 235 240
 Ala Lys Leu Lys Gln Gln Lys Tyr Glu Ile Asn Val Leu Tyr Asn Arg
 245 250 255
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 260 265 270
 Gly Gly Arg Trp Lys
 275

<210> 16
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<220>
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<300>
 <303> DNA Cell Biol.
 <304> 13
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 <306> 217-233
 <307> MAR-1994

<400> 16
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 20 25 30
 Ala Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile Pro
 35 40 45
 Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln Asn
 50 55 60
 Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu Ala
 65 70 75 80

Lys

<213> Unknown

<223> Rat cardiac troponin T

<223> Swiss prot identification number P50753

<307> 1989-08-25

1 5 10 15

Glu Asp Trp Ser Glu Glu Glu Glu Asp Glu Gln Glu Glu Ala Val Glu
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 Glu Glu Asp Gly Glu Ala Glu Pro Asp Pro Glu Gly Glu Ala Glu Ala
 35 40 45
 Glu Glu Asp Lys Ala Glu Glu Val Gly Pro Asp Glu Glu Ala Arg Asp
 50 55 60
 Ala Glu Asp Gly Pro Val Glu Asp Ser Lys Pro Lys Pro Ser Arg Leu
 65 70 75 80
 Phe Met Pro Asn Leu Val Pro Pro Lys Ile Pro Asp Gly Glu Arg Val
 85 90 95
 Asp Phe Asp Asp Ile His Arg Lys Arg Met Glu Lys Asp Leu Asn Glu
 100 105 110
 Leu Gln Thr Leu Ile Glu Ala His Phe Glu Asn Arg Lys Lys Glu Glu
 115 120 125
 Glu Glu Leu Ile Ser Leu Lys Asp Arg Ile Glu Lys Arg Arg Ala Glu
 130 135 140
 Arg Ala Glu Gln Gln Arg Ile Arg Asn Glu Arg Glu Lys Glu Arg Gln
 145 150 155 160
 Asn Arg Leu Ala Glu Glu Arg Ala Arg Arg Glu Glu Glu Glu Asn Arg
 165 170 175
 Arg Lys Ala Glu Asp Glu Ala Arg Lys Lys Lys Ala Leu Ser Asn Met
 180 185 190
 Met His Phe Gly Gly Tyr Ile Gln Lys Ala Gln Thr Glu Arg Lys Ser
 195 200 205
 Gly Lys Arg Gln Thr Glu Arg Glu Lys Lys Lys Lys Ile Leu Ala Glu
 210 215 220
 Arg Arg Lys Val Leu Ala Ile Asp His Leu Asn Glu Asp Gln Leu Arg
 225 230 235 240
 Glu Lys Ala Lys Glu Leu Trp Gln Ser Ile His Asn Leu Glu Ala Glu
 245 250 255
 Lys Phe Asp Leu Gln Glu Lys Phe Lys Gln Gln Lys Tyr Glu Ile Asn
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 Val Leu Arg Asn Arg Ile Asn Asp Asn Gln Lys Val Ser Lys Thr Arg
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 Gly Lys Ala Lys Val Thr Gly Arg Trp Lys
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<210> 18

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<220>

<223> Swiss prot identification number P09739

<300>

<303> J. Mol. Biol.

<304> 188

<305> 3

<306> 313-324

<307> 1986-Apr-5

<400> 18

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Val Gln Glu Glu Glu Lys Pro Arg Pro Lys Leu Thr Ala Pro Lys Ile
      35              40              45

Pro Glu Gly Glu Lys Val Asp Phe Asp Asp Ile Gln Lys Lys Arg Gln
      50              55              60

Asn Lys Asp Leu Met Glu Leu Gln Ala Leu Ile Asp Ser His Phe Glu
      65              70              75              80

Ala Arg Lys Lys Glu Glu Glu Glu Leu Ile Ala Leu Lys Glu Arg Ile
      85              90              95

Glu Lys Arg Arg Ala Glu Arg Ala Glu Gln Gln Arg Ile Arg Ala Glu
      100             105             110

Lys Glu Arg Glu Arg Gln Asn Arg Leu Ala Glu Glu Lys Ala Arg Arg
      115             120             125

Glu Glu Glu Asp Ala Lys Arg Arg Ala Glu Asp Asp Leu Lys Lys Lys
      130             135             140

Lys Ala Leu Ser Ser Met Gly Ala Asn Tyr Ser Ser Tyr Leu Ala Lys
      145             150             155             160

Ala Asp Gln Lys Arg Gly Lys Lys Gln Thr Ala Arg Glu Met Lys Lys
      165             170             175

Lys Ile Leu Ala Glu Arg Arg Lys Pro Leu Asn Ile Asp His Leu Ser
      180             185             190

Asp Asp Lys Leu Arg Asp Lys Ala Lys Glu Leu Trp Asp Thr Leu Tyr
      195             200             205

Gln Leu Glu Thr Asp Lys Phe Glu Phe Gly Glu Lys Leu Lys Arg Gln
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<223> rat myosin light chain 1, atrial isoform
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<300>  
<303> Nucleic Acids Res.  
<304> 18  
<305> 6  
<306> 1581-1586  
<307> 1990-MAR-25
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			20					25					30			
Ala	Phe	Asp	Pro	Lys	Ser	Val	Lys	Ile	Asp	Phe	Ser	Ala	Asp	Gln	Ile	
		35					40					45				
Glu	Glu	Phe	Lys	Glu	Ala	Phe	Ser	Leu	Phe	Asp	Arg	Thr	Pro	Thr	Gly	
	50					55					60					
Glu	Met	Lys	Ile	Thr	Tyr	Gly	Gln	Cys	Gly	Asp	Val	Leu	Arg	Ala	Leu	
65					70					75					80	
Gly	Gln	Asn	Pro	Thr	Asn	Ala	Glu	Val	Leu	Arg	Val	Leu	Gly	Lys	Pro	
				85					90					95		
Lys	Pro	Glu	Glu	Met	Asn	Ser	Lys	Thr	Leu	Asp	Phe	Glu	Met	Phe	Leu	
		100						105					110			
Pro	Ile	Leu	Gln	His	Ile	Ser	Arg	Asn	Lys	Glu	Gln	Gly	Thr	Tyr	Glu	
		115					120					125				
Asp	Phe	Val	Glu	Gly	Leu	Arg	Val	Phe	Asp	Lys	Glu	Ser	Asn	Gly	Thr	
	130					135					140					
Val	Met	Gly	Ala	Glu	Leu	Arg	His	Val	Leu	Ala	Thr	Leu	Gly	Glu	Lys	
145					150					155					160	
Met	Ser	Glu	Ala	Glu	Val	Glu	Gln	Leu	Leu	Thr	Gly	Gln	Glu	Asp	Ala	
				165					170					175		
Asn	Gly	Cys	Ile	Asn	Tyr	Glu	Ala	Phe	Val	Lys	His	Val	Met	Ser	Gly	

180

185

190